

Docket No.: 181-037

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT OPERATIONS

In re Application of:

Peter Dronzek

Group Art Unit: 1771

Serial No.: 10/505,392

Examiner: Chang, Victor S.

Filed: August 20, 2004

For: CARD INTERMEDIATES

Commissioner for Patents

P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR§1.132

Sir:

I, Peter Dronzek, declare that I am the inventor of the subject matter described in the above identified application.

I am making this declaration for the purpose of reporting test data obtained by testing two products; one according to the invention claimed in the above identified application and one made for comparative purposes.

I have supervised the following tests which were carried out to demonstrate the differences between use of a full surface treatment for uniform surface adhesion and a variable surface treatment for variable surface adhesion.

The tests were carried out as followed:

A first laminate which was made from a 1.5mil polyester film that was subjected to a variable surface treatment in the form of a wave pattern by using a corona treater that is adapted to apply a sine-wave pattern in the machine direction. The wave

pattern was arranged to give an amplitude of the sine wave was 1/4 inch and the thickness of the electrode providing the treatment was 3/32" the frequency of the sine wave 1/2 inch running in the machine direction with a phase difference of on 1/2 inch across the web. The treated polyester is overcoated with a urethane resin and then the overcoated side is laminated to a 2 mill polyester with an adhesive. Thereafter the opposite side of the 2 mill polyester is coated with a pressure sensitive adhesive and a release liner is applied to that pressure sensitive adhesive layer to protect the pressure sensitive adhesive. The release liner is removed and the laminate is applied to a paper form backing. The laminate is cut down to the 1.5 mill polyester layer to form a die cut piece which is removable at the interface of the corona treated 1.5 mill film and the 2 mill film.

A second laminate was made in the same manner as the first laminate except that the corona treatment was applied using a corona treater that applied a corona treatment to the complete surface using the same energy level that was applied in making the first laminate.

Thereafter the peel strength of the laminates is determined using a IMAS SP-2000 peel tester. The results were as follows:

First Laminate

Digital Data

| | Peel/Force | 2 Kg |
|-----------------------|-----------------------|-------------|
| cell capacity | | |
| time | | 2 sec delay |
| sn: S2DD189 | 4.49 in platen travel | |
| 20 sec averaging time | | |
| vn: OC.030a | time stop mode | 12 |
| in/min speed | | |

| TEST | STATIC PEAK g | KINETIC PEAK g | VALLEY g | AVERAGE g | RMS g | N |
|------|---------------------|----------------------|-------------|--------------|----------|---|
|------|---------------------|----------------------|-------------|--------------|----------|---|

| | | | | | | |
|--------------------------|-------|-------|-------|-------|-------|---|
| 1 | 86.4 | 75.7 | 21.6 | 45.7 | 13.3 | 1 |
| 2 | 52.6 | 59.5 | 25.5 | 39.7 | 9.0 | 2 |
| 3 | 94.1 | 97.7 | 20.6 | 49.3 | 19.4 | 3 |
| 4 | 69.8 | 89.5 | 23.5 | 46.5 | 15.0 | 4 |
| MEAN | 75.73 | 80.61 | 22.80 | 45.33 | 14.16 | 4 |
| STD DEV | 18.48 | 16.73 | 2.20 | 4.04 | 4.30 | |
| COEFF of VARIATION | 0.244 | 0.208 | 0.096 | 0.089 | 0.304 | |

* Conditions: 2'' Strip, 12''/min

Peel Angle: 180

Fig. 1 is a graphical representation of the digital data set forth above.

Second Laminate

Digital Data

| | | |
|-----------------------|-----------------------|-------------|
| cell capacity | Peel/Force | 2 Kg |
| time | | 2 sec delay |
| sn: S2DD189 | 4.49 in platen travel | |
| 20 sec averaging time | | |
| vn: OC.030a | time stop mode | 12 |
| in/min speed | | |

| TEST | STATIC PEAK g | KINETIC PEAK g | VALLEY g | AVERAGE g | RMS g | N |
|---------------------------|---------------------|----------------------|-------------|--------------|----------|---|
| 5 | 260.1 | 264.2 | 233.3 | 248.5 | 5.9 | 1 |
| 6 | 250.6 | 243.7 | 222.6 | 232.1 | 3.6 | 2 |
| 7 | 379.3 | 383.6 | 349.3 | 363.8 | 6.4 | 3 |
| 8 | 388.3 | 380.2 | 346.3 | 363.5 | 6.1 | 4 |
| MEAN | 319.57 | 317.93 | 287.88 | 301.98 | 5.51 | 4 |
| STD DEV | 74.37 | 74.33 | 69.31 | 71.53 | 1.27 | |
| COEFF. of VARIATION | 0.233 | 0.234 | 0.241 | 0.237 | 0.231 | |

* Conditions: 2'' Strip, 12''/min
Peel Angle: 180

Fig. 2 is a graphical representation of the digital data set forth above.

The peel strength for the variable treated laminate (Figure 1) was lower than that for the fully treated laminate (Figure 2) and the edge of the laminate of Figure 1 was more readily lifted than was the edge of the laminate of Figure 2.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application and of any patent issued thereon.

Dated:

Peter Dronzek

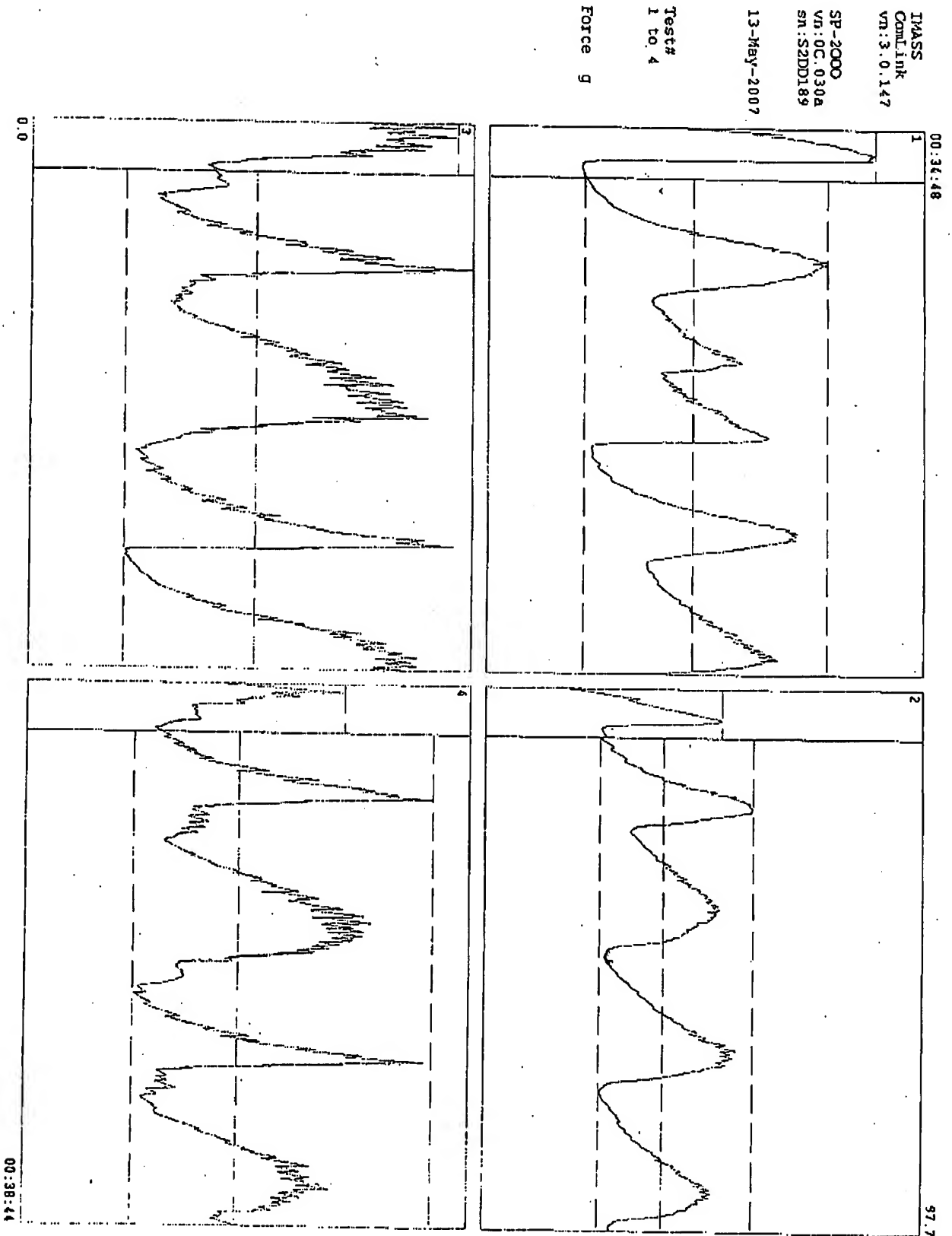


Fig.

IMASS
ComLink
vsn: 3.0.147

SP-2000
vsn: 0C.030a
sn: S2DD189

13-May-2007

Test#
1 to 4

Force g

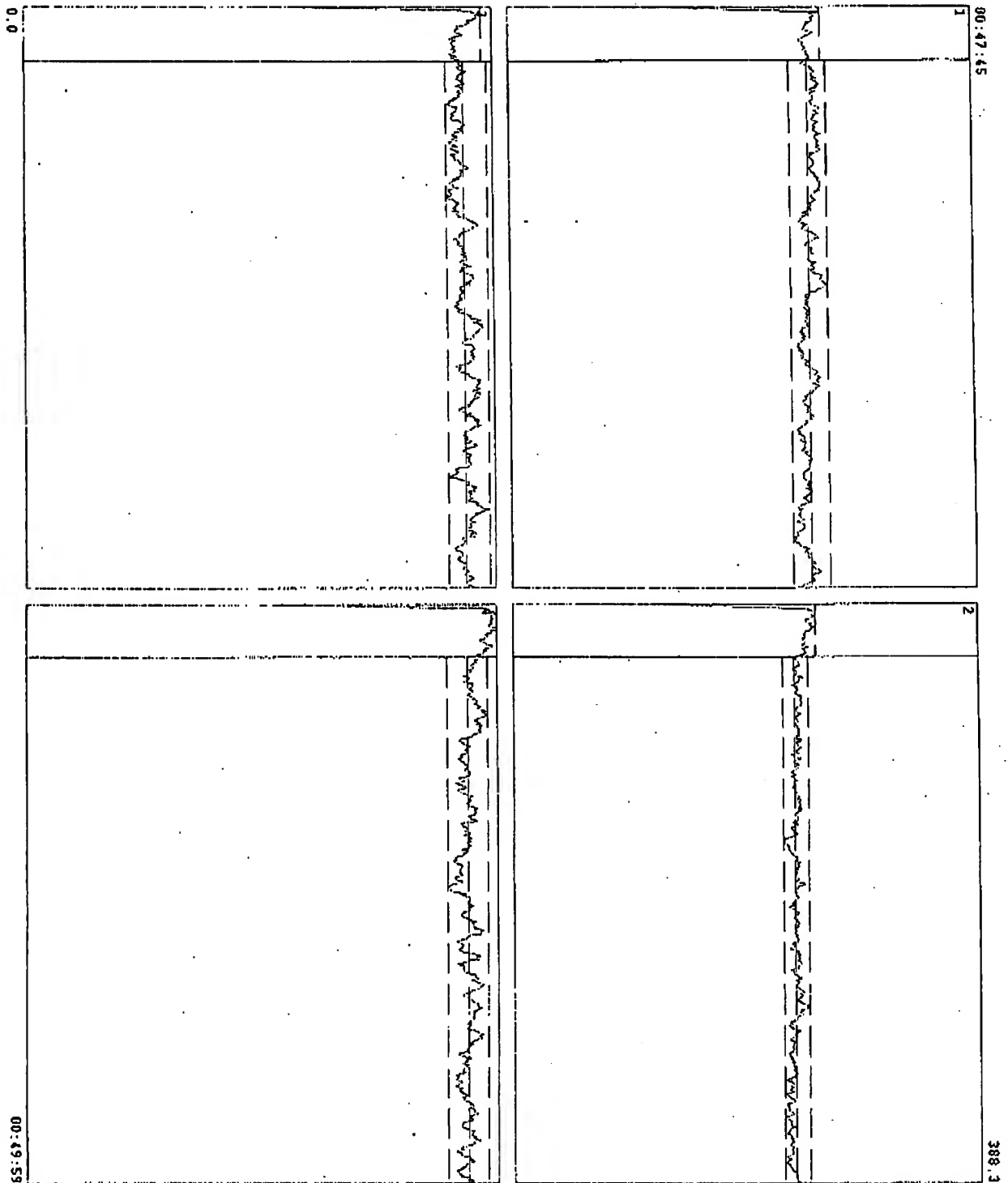


Fig. 2